

=> s monochloramine/cn
L1 1 MONOCHLORAMINE/CN

=> d ide can

L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2010 ACS on STN
RN 10599-90-3 REGISTRY
ED Entered STN: 16 Nov 1984
CN Chloramide (CA INDEX NAME)
OTHER NAMES:
CN Chloramine
CN Chloramine (inorganic compound)
CN Chloroamine
CN ExoStop
CN Monochloramine
CN Monochloramine (NH₂Cl)
CN Monochloroamine
CN Monochloroammonia
MF Cl H₂ N
CI COM
LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BIOSIS, BIOTECHNO, CA, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DRUGU, EMBASE, GMELIN*, HSDB*, IFICDB, IFIPAT, IFIUDB, MEDLINE, MSDS-OHS, PIRA, PROMT, RTECS*, TOXCENTER, ULIDAT, USPAT2, USPATFULL, USPATOLD
(*File contains numerically searchable property data)
Other Sources: EINECS**, NDSL**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)

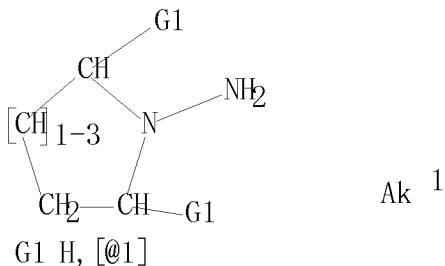
C1-NH₂

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1865 REFERENCES IN FILE CA (1907 TO DATE)
20 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
1867 REFERENCES IN FILE CAPLUS (1907 TO DATE)

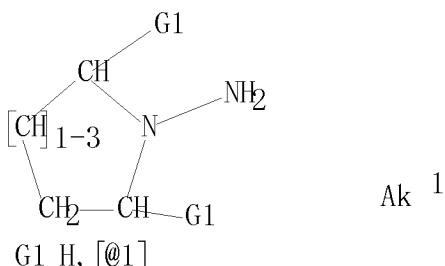
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REFERENCE 3: 153:262142
REFERENCE 4: 153:241142
REFERENCE 5: 153:224660
REFERENCE 6: 153:165572
REFERENCE 7: 153:79433
REFERENCE 8: 153:20118
REFERENCE 9: 152:575252
REFERENCE 10: 152:533634

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 L2 STR



Structure attributes must be viewed using STN Express query preparation.

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 L4 786 SEA FILE=REGISTRY SSS FUL L2

100.0% PROCESSED 195954 ITERATIONS
 SEARCH TIME: 00.00.02 786 ANSWERS

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FILE 'REGISTRY' ENTERED AT 04:56:12 ON 12 SEP 2010
 E MONOCHLORAMINE/CN
 L1 1 S MONOCHLORAMINE/CN
 L2 STRUCTURE uploaded
 L3 40 S L2
 L4 786 S L2 FULL

=> fil cap1

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FILE COVERS 1907 - 12 Sep 2010 VOL 153 ISS 12

FILE LAST UPDATED: 10 Sep 2010 (20100910/ED)

REVISED CLASS FIELDS (/NCL) LAST RELOADED: Jun 2010

USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Jun 2010

Cplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2010.

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L5 1674 L4

=> s 11 and 15
L6 1867 L1
5 L1 AND L5

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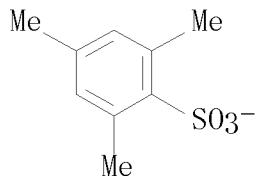
L6 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2010 ACS on STN
 ACCESSION NUMBER: 2009:208970 CAPLUS
 TITLE: Product class 7: hydrazines and hydrazinium salts
 AUTHOR(S): Rademacher, P.
 CORPORATE SOURCE: Institut fuer Organische Chemie, Universitaet
 Duisburg-Essen, Essen, 45117, Germany
 SOURCE: Science of Synthesis (2009), Volume Date 2008, 40b,
 1133-1210
 CODEN: SSCYJ9
 PUBLISHER: Georg Thieme Verlag
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 ABSTRACT: Unavailable
 IT INDEXING IN PROGRESS
 IT 10599-90-3
 RL: CAT (Catalyst use); USES (Uses))
 RN 10599-90-3 CAPLUS
 CN Chloramide (CA INDEX NAME)

C1-NH₂

IT 42496-69-5P
 RL: SPN (Synthetic preparation); PREP (Preparation))
 RN 42496-69-5 CAPLUS
 CN Piperidinium, 1-amino-1-methyl-, 2,4,6-trimethylbenzenesulfonate (1:1)
 (CA INDEX NAME)

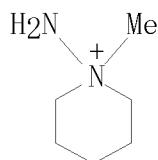
CM 1

CRN 46149-61-5
 CMF C9 H11 O3 S



CM 2

CRN 45632-94-8
 CMF C6 H15 N2



REFERENCE COUNT: 293 THERE ARE 293 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2010 ACS on STN
 ACCESSION NUMBER: 2005:549735 CAPLUS
 DOCUMENT NUMBER: 143:77854
 TITLE: Process for synthesis of derivatives of exocyclic cycloalkyl hydrazines and heterocycloalkyl hydrazines
 INVENTOR(S): Delalu, Henri; Colas, Duriche Cecile; Berthet, Jacques; Leurent, Philippe
 PATENT ASSIGNEE(S): Isochem, Fr.; Centre National De La Recherche Scientifique CNRS; Universite Claude Bernard Lyon I
 SOURCE: Fr. Demande, 21 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2864081	A1	20050624	FR 2003-14795	20031217
FR 2864081	B1	20060428		
CA 2550080	A1	20050630	CA 2004-2550080	20041217
WO 2005058852	A1	20050630	WO 2004-FR3288	20041217
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1699770	A1	20060913	EP 2004-816423	20041217
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, IS				
CN 1894228	A	20070110	CN 2004-80037639	20041217
CN 100528853	C	20090819		
JP 2007514723	T	20070607	JP 2006-544502	20041217
IN 2006DN03450	A	20070831	IN 2006-DN3450	20060615
KR 2007022639	A	20070227	KR 2006-714401	20060718
US 20070249829	A1	20071025	US 2007-583284	20070523
PRIORITY APPLN. INFO. :			FR 2003-14795	A 20031217
			WO 2004-FR3288	W 20041217

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OTHER SOURCE(S): CASREACT 143:77854; MARPAT 143:77854

ABSTRACT:

The present invention relates to a process of synthesis of exocyclic cycloalkyl hydrazine derivs. and exocyclic heterocycloalkyl hydrazine derivs. The process includes stages of reacting a heterocyclic amine with monochloroamine in an alkaline medium at 30-60° and decomposing the solution containing the synthesized derivative in an organic phase and an aqueous phase by the adding anhydrous sodium hydroxide, whereas the starting amine which did not react is recovered and re-used directly, without addnl. treatment. The process of this invention thus allows obtaining cycloalkyl hydrazine derivs. or exocyclic heterocycloalkyl hydrazine derivs. with a lower cost in comparison to the other known processes.

IT 10599-90-3, Monochloroamine

RL: RGT (Reagent); RACT (Reactant or reagent)

(process for synthesis of derivs. of exocyclic cycloalkyl hydrazines and heterocycloalkyl hydrazines)

RN 10599-90-3 CAPLUS

CN Chloramide (CA INDEX NAME)

Cl-NH₂

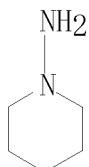
IT 2213-43-6P, N-Aminopiperidine

RL: SPN (Synthetic preparation); PREP (Preparation)

(process for synthesis of derivs. of exocyclic cycloalkyl hydrazines and heterocycloalkyl hydrazines)

RN 2213-43-6 CAPLUS

CN 1-Piperidinamine (CA INDEX NAME)



REFERENCE COUNT:

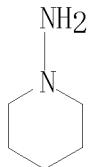
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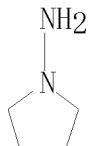
L6 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2010 ACS on STN
 ACCESSION NUMBER: 1985:617700 CAPLUS
 DOCUMENT NUMBER: 103:217700
 ORIGINAL REFERENCE NO.: 103:35085a, 35088a
 TITLE: Syntheses of some N-substituted hydrazines by the anhydrous chloramine process
 AUTHOR(S): Jain, S. R.; Chellappa, D.
 CORPORATE SOURCE: Dep. Aerosp. Eng., Indian Inst. Sci., Bangalore, 560 012, India
 SOURCE: Proceedings - Indian Academy of Sciences, Chemical Sciences (1985), 95(4), 381-9
 CODEN: PIAADM; ISSN: 0253-4134
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 103:217700

ABSTRACT:
 C1NH₂, produced in the gas phase by the reaction of Cl₂ and NH₃, reacts with various primary and secondary amines in nonaq. solvents in the presence of a fixed base to form the corresponding N-substituted hydrazines. The hydrazines synthesized include PhNH₂ [100-63-0], p-tolylhydrazine [539-44-6], H₂NCH₂CH₂NHNH₂ [14478-61-6], N-aminopyrrolidine [16596-41-1], and N-aminopiperidine [2213-43-6]. Apparently, no hydrazine is formed when the reaction is carried out in the absence of fixed base. The effect of various factors, such as fixed-base concentration, amine/C1NH₂ ratio etc., on the overall yield of hydrazines was studied. A modified C1NH₂ gas generator giving improved yields is described. The optimum yield of C1NH₂ is dependent upon the ratio of Cl₂, NH₃, and N₂ taken, but is virtually independent of the reactor temperature

IT 2213-43-6P 16596-41-1P
 RL: PREP (Preparation)
 (preparation of, anhydrous chloramine process for)
 RN 2213-43-6 CAPLUS
 CN 1-Piperidinamine (CA INDEX NAME)



RN 16596-41-1 CAPLUS
 CN 1-Pyrrolidinamine (CA INDEX NAME)



IT 10599-90-3P
 RL: PREP (Preparation)
 (preparation of, anhydrous process for)

10/583, 284

09/12/2010

Page 10

RN 10599-90-3 CAPLUS
CN Chloramide (CA INDEX NAME)

C1-NH₂

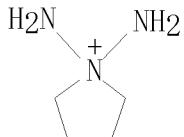
OS. CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD
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L6 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2010 ACS on STN
 ACCESSION NUMBER: 1968:495855 CAPLUS
 DOCUMENT NUMBER: 69:95855
 ORIGINAL REFERENCE NO.: 69:17914h, 17915a
 TITLE: Dialkyltriazanium salts. I. Reaction of 2-dialkylamino-1,3,2-dioxaphospholanes and 2-dialkylamino-1,3,2-dioxaphosphorinane with chloramide in the presence of ammonia
 AUTHOR(S): Utváry, K.
 CORPORATE SOURCE: Univ. of Florida, Gainesville, FL, USA
 SOURCE: Monatshefte fuer Chemie (1968), 99(4), 1473-82
 CODEN: MOCHAP
 DOCUMENT TYPE: Journal
 LANGUAGE: German
 ABSTRACT:
 2-(RR'N-Substituted)-1,3,2-dioxaphospholane [R = R' = Me; R = R' = Et; RR' = (CH₂)₄; RR' = (CH₂)₂; RR' = (CH₂)₂₀(CH₂)₂; R = Me, R' = cyclohexyl] treated with NH₂Cl and NH₃ gave [(NH₂)₂NRR']⁺Cl⁻ and a polymeric P compound. The mechanism of reaction is discussed. Similar reaction was shown by 2-dialkylaminophosphorinanes.

IT 13006-15-0P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)

RN 13006-15-0 CAPLUS

CN Pyrrolidinium, 1,1-diamino-, chloride (1:1) (CA INDEX NAME)

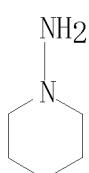


IT 10599-90-3
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (reaction of, with cyclic ethylene dialkyl phosphoramidites and with cyclic trimethylene dialkyl phosphoramidites)
 RN 10599-90-3 CAPLUS
 CN Chloramide (CA INDEX NAME)



L6 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2010 ACS on STN
 ACCESSION NUMBER: 1957:8727 CAPLUS
 DOCUMENT NUMBER: 51:8727
 ORIGINAL REFERENCE NO.: 51:1761g-h
 TITLE: Reactions of chloramine with anhydrous primary and secondary amines
 AUTHOR(S): Omietanski, Geo. M.; Kelmers, A. Donald; Shellman, Richard W.; Sisler, Harry H.
 CORPORATE SOURCE: Ohio State Univ., Columbus
 SOURCE: Journal of the American Chemical Society (1956), 78, 3874-7
 CODEN: JACSAT; ISSN: 0002-7863
 DOCUMENT TYPE: Journal
 LANGUAGE: Unavailable
 OTHER SOURCE(S): CASREACT 51:8727
 ABSTRACT:
 cf. C.A. 50, 13024f. NH₂Cl reacts with anhydrous primary and secondary amines to form N-substituted hydrazines. The method was used to prepare Me-, Et-, iso-Pr, unsym, di-Me-, and unsym. di-iso-Pr hydrazines and N-aminopiperidine. NH₂Cl reacts with Et₂NH to form EtNHNH₂. The mechanism of the reactions is discussed.

IT 2213-43-6P, Piperidine, 1-amino-
 RL: PREP (Preparation)
 (preparation from amines and NH₂Cl)
 RN 2213-43-6 CAPLUS
 CN 1-Piperidinamine (CA INDEX NAME)



IT 10599-90-3, Chloramide
 (reaction with amines in nonaq. solvents)
 RN 10599-90-3 CAPLUS
 CN Chloramide (CA INDEX NAME)

C1-NH₂

OS. CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD
 (1 CITINGS)

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FILE 'REGISTRY' ENTERED AT 04:56:12 ON 12 SEP 2010
E MONOCHLORAMINE/CN

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D 1-4 IDE CAN
L1 1 SEA ABB=ON PLU=ON MONOCHLORAMINE/CN
D IDE CAN
L2 STRUCTURE uploaded
D L2
L3 40 SEA SSS SAM L2
L4 786 SEA SSS FUL L2
D QUE L4 STAT

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L5 1674 SEA ABB=ON PLU=ON L4
L6 5 SEA ABB=ON PLU=ON L1 AND L5
D 1-5 IBIB IABS HITSTR

FILE HOME

FILE REGISTRY

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 9 SEP 2010 HIGHEST RN 1240463-09-5
DICTIONARY FILE UPDATES: 9 SEP 2010 HIGHEST RN 1240463-09-5

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TSCA INFORMATION NOW CURRENT THROUGH June 26, 2010.

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FILE COVERS 1907 - 12 Sep 2010 VOL 153 ISS 12

FILE LAST UPDATED: 10 Sep 2010 (20100910/ED)

REVISED CLASS FIELDS (/NCL) LAST RELOADED: Jun 2010

USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Jun 2010

CAplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2010.

CAS Information Use Policies apply and are available at:

<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate substance identification.

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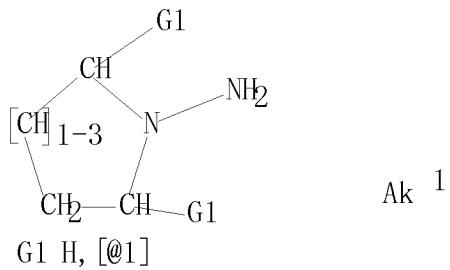
L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2010 ACS on STN
RN 10599-90-3 REGISTRY
ED Entered STN: 16 Nov 1984
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CN Monochloramine
CN Monochloramine (NH₂Cl)
CN Monochloroamine
CN Monochloroammonia
MF Cl H₂ N
CI COM
LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BIOSIS, BIOTECHNO, CA, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DRUGU, EMBASE, GMELIN*, HSDB*, IFICDB, IFIPAT, IFIUDB, MEDLINE, MSDS-OHS, PIRA, PROMT, RTECS*, TOXCENTER, ULIDAT, USPAT2, USPATFULL, USPATOLD
(*File contains numerically searchable property data)
Other Sources: EINECS**, NDSL**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)

C1-NH₂

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20 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
1867 REFERENCES IN FILE CAPLUS (1907 TO DATE)

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 L2 STR



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FULL ESTIMATED COST	0.50	275.97
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
CA SUBSCRIBER PRICE	ENTRY	SESSION
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